

THE QUALITY CHICKEN PEOPLE

ALLEN FAMILY FOODS, INC.

P.O. BOX 63 HARBESON, DE 19951 302/684-1640 FAX: 302/684-1638

April 26, 2004

CERTIFIED MAIL

7001 2510 0007 7810 0470

Delaware Department of Natural Resources and Environmental Control Division of Water Resources 89 Kings Highway Dover, DE 19903

Attn:

Mr. Peder Hansen

Program Manager

Re:

NPDES Permit No. DE 0000299

Allen Family Foods – Harbeson, DE

Subject:

NPDES Renewal Application

Dear Mr. Hansen:

Enclosed you will find the application for re-issuance of the NPDES permit to discharge treated process water and storm water to Beaverdam Creek. Our bioassay results for the April 2004 chronic test are not available yet and will be submitted under separate cover.

If you have any questions, please do not hesitate to contact me at (302) 684-1640 x184.

Respectfully submitted,

ALLEN FAMILY FOODS, INC.

Steve Hudson

Environmental Manager

APR 3 0 2004

DIV. OF WATER RESOURCES
SURFACE WATER DISCHARGES SECTION

FORM	28.0		100	1. 1.	4 - 1		ION AGENCY	I, EPA I.D. NU	MBER	W.		
	SEP/				NFORM Permits P			F			1,1	T/A C
GENERAL	LITEMS	(Read the "C	ener	al In	structions"	be	ram fore starting.)	1 2	ERAL INSTR	ICTU	ONE	13 14 13
V. FACILIV. MAILIN VI. FACIL VI. LOCA II. POLLUT INSTRUCTURSTIONS	TY NAME TY NG ADDRESS ANT CHARACTE TIONS: Complete you must submit	PLEASE PLA RISTICS A through J to determine we this form and the supplement attached, If you answer "no"	hether tal fo	er yo	ou need to	sub e pa	mit any permit application	If a preprinte it in the designation carefully through it am appropriate fill the preprinted left of the lathat should approper fill—in complete and Items I, III, must be compited in the instructions and for which this data forms to the Efstion, Mark "X"	d label has be nated space. It; if any of it of enter the collinarea belonger, please area(s) belonger, you v, and vi (e) pleted regard belons for detained as collected. A. If you ansoluted to box in the box in	Review is in correct ow. And (thick the proview. If need exceptions) is the correct own in the correct own i	rovide with the correct data and the correct data and the correct data and the correct correct the correct cor	informatt, cross a in the fany of a to the immation t in the label is complete all Refer to descripts under
is excluded	from permit requ	irements; see Section C of the	instr	uctio	ins. See also	o, S	ection D of the instructions	for definitions	of bold—faced	terms	d.	
	SPECIFIC GI	DESTIONS	YES	MAE	FORM	2.	SPECIFIC C	UESTIONS		YES	NO	FORM ATTACHED
	results in a discha	ly owned treatment works arge to waters of the U.S.?		×		в.	Does or will this facility include a concentrated a aquatic animal productio discharge to waters of the	inimal feeding on facility which	peration or results in a		×	
to water	ers of the U.S. ot	urrently results in dischar ges her than those described in	×	17	11	D.	Is this a proposed facility in A or B above) which	fother than the	se described	1.9	2r X	* m - 3
E. Does o	above? (FORM 2C r will this facility ous wastes? (FORM	treat, store, or dispose of	_22_	×		F.	waters of the U.S.? (FOR Do you or will you inject municipal effluent below taining, within one quaunderground sources of d	t at this facility the lowermost rter mile of th	stratum con-	25	X 32	27
water o in conn duction oil or n	or other fluids which section with conver in inject fluids use	at this facility any produced ch are brought to the surface ntional oil or natural gas pro- d for enhanced recovery of ct fluids for storage of liquid	24	X	30	H	Do you or will you inject cial processes such as m process, solution mining tion of fossil fuel, or rec (FORM 4)	ning of sulfur b	y the Frasch		X	
I. Is this one of struction per year	facility a proposed the 28 industrial ons and which wil ar of any air po	d stationary source which is categories listed in the in- ill potentially emit 100 tons llutant regulated under the affect or be located in an		x	8	J.	Is this facility a propose NOT one of the 28 indu- instructions and which w per year of any air pollut. Air Act and may affect of area? (FORM 5)	istrial categories vill potentially er ant regulated und	listed in the nit 250 tons der the Clean	743	X	
	OF FACILITY	Of Contracting the service of the se	9402	STR	100 at 2012	193	and the control of th	SCHOOL STREET	PARAMETER STATE	ELA AN	-	11 9 35
1 SKIP A	L.LEN.	FAMILY FO	0 1	2'(IN	C.			i de de la companione d	69		3 (A) (E)
IV. FACILIT	TY CONTACT	A. NAME & TITLE (last, fir	S 18	title		-	e some postale stay of the g	PHONE fareu co	ode & no.)	21550		- 1 Ja V
2 H U D	SON, S	TEVE, ENV	ı'k	20		N	TAL MGR. 30	2684	1640			
V. FACILIT	Y MAILING ADD	A. STREET OR P.O.	вох	245			A THE THE SAME AND				Ç.A.	
3 P O	BOX 6	3	الماليات				45					
Annual Control of the	BESON	B. CITY OR TOWN		1		-	DE 1995	7		ŧ.		
VI. FACILI	TY LOCATION						22 1 122 22 1 1 2					
5 R.O. u	TE 5	T, ROUTE NO. OR OTHER S	PECI	FIC	IDENTIFI	ER				5	N V	
Su 55	£X	B. COUNTY NAME		1		76	e galendarija obje		V 600E	7 156		
E HAR	BESON	C. CITY OR TOWN		1		- WS	DE 1995	F. COUNT	(un)			A A

CONTINUED FROM THE FRONT	
VII. SIC CODES (4-digit, in order of priority)	S III SALES SEE SEE SEE SEE SEE SEE SEE SEE SEE
A. FIRST	B. SECOND
7 2015 (specify) POULTRY PROCESSING 7 (specify)	
18 19 19 C. THIRD	D. FOURTH
c. THIRD	THE PERSON NAMED IN COLUMN TO SERVICE
7	*
VIII. OPERATOR INFORMATION	
A. NAME	B. Is the name listed in
8 ALLEN FAMILY FOODS, INC.	Item VIII-A also the owner?
8 ALLEN FAMILY FOODS, INC.	YES INO
15 16	31 66
C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box: if "Other", specify.)	D. PHONE (area code & no.)
F = FEDERAL $M = PUBLIC (other than federal or state)$ $S = STATE$ $O = OTHER (specify)$ $(specify)$	A 302 629 9163
P = PRIVATE	19 16 - 11 19 - 21 22 - 25
E, STREET OR P,O. BOX	
PO BOX 240	The second of th
F. CITY OR TOWN G.STATE H. ZIP CO	DDE IX, INDIAN LAND
	Is the facility located on Indian lands?
BSEAFORD DE 1997	73 □YES ÆNO
js 16. 40 41 42 47 · ·	52
X. EXISTING ENVIRONMENTAL PERMITS	
A. NPDES (Discharges to Surface Water) D. PSD (Air Emissions from Proposed Sources)	
9 N 0000299-001 9 P	(2)
15 16 17 11 - 36 15 16 17 11 - 39	
B. UIC (Underground Injection of Fluids) E. OTHER (specify)	
9 [U]	(specify)
15 16 17 11 30 15 16 17 11 30 C. RCRA (Hazardous Wastes) E. OTHER (specify)	Was John San Company
	(specify)
9 8	a them
15 16 17 18	
Attach to this application a topographic map of the area extending to at least one mile beyond	property boundaries. The map must show
the outline of the facility, the location of each of its existing and proposed intake and discha-	arge structures, each of its hazardous waste
treatment, storage, or disposal facilities, and each well where it injects fluids underground. In	nclude all springs, rivers and other surface
water bodies in the map area. See instructions for precise requirements.	
XII. NATURE OF BUSINESS (provide a brief description)	
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CONSUMPTION	80
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XIII. CERTIFICATION (see instructions)	100 march 100 World
I certify under penalty of law that I have personally examined and am familiar with the inform	nation submitted in this application and all
attachments and that, based on my inquiry of those persons immediately responsible for o application, I believe that the information is true, accurate and complete, I am aware that th	btaining the information contained in the
false information, including the possibility of fine and imprisonment.	tere are significant penalties for submittening
A. NAME & OFFICIAL TITLE (type or print) B. SIGNATURE	C. DATE SIGNED
STEVE HUDSON	
ENVIRONMENTAL MANAGER St. Huch	4/20/04
COMMENTS FOR OFFICIAL USE ONLY	
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DE 000299-001

Form Approved. OMB No. 2040-0086. Approval expires 8-31-98.

20 SEPA

U.S. ENVIRONMENTAL PROTECTION AGENCY APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURAL OPERATIONS Consolidated Permits Program

A. OUTFALL		LATITUDE		C. L	ONGITUD	E	D	RECEIVING	WATER (name)
(list)	t, bee.	E. MIN.	J. SEC.	1. DEG,	1. MIN.	3, SEC.	0.000		
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			0.200						

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

- A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities), provide a plotorial description of the nature and amount of any sources of water and any collection or treatment measures.
- B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.

1. OUT-	2. OPERATION(S) CONTRIBUTE	NG FLOW	3. TREATMENT		
FALL NO	e. OPERATION (list)	b. AVERAGE FLOW (include units)	a, DESCRIPTION	b. LIST CO	DES FROM
	PROCESSING OPERATION	1,20 MGD	SCREENING	1	T
001	SANITARY WASTE	0.05 MGD	GRIT REMOVAL	/	M
	STORM WATER RUNOFF	0,20 M&D	GREASE FLOATATION	1	H
	TOTAL	1,45 MGD	COAGULATION	2	\mathcal{D}
	<i>#</i>		ANAEROBIC LAGOON	3	C
			ACTIVATED SLUDGE	3	A
			NITRIFICATION - DENTIES FICK	w 3	0
		ÿ.	DISINFECTION	2	F
,,			AGROBIC DIGESTION	5	A
			FLOMATION THEKENING	5	J
		W*	LAND APPLICATION	5	P
			DECHLORINATION	2	٤
002	STORM WHER RUNOFF	A CARL A MONTH OF THE	GRIT REMOVAL	/	M
		S STANFORM C STANFORM	N		
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		7.0			
	- PANTALA CALLANDA AND AND AND AND AND AND AND AND AND				
OFFICIA	L USE ONLY (effluent suidelines sub-ostesories)		A		L

OFFICIAL USE ONLY (effluent guidelines sub-cetegories)

EPA Form 3510-2C (8-90)

	complete the foli	JWINE !			j		X(NO (80	to Section III			
OUTEAL			4 1		3. FREC	PUENCY	a. FLOV	v = 1-2-	4. FLOW		
NUMBER	2. OPE CONTRIE	NITU	ON(3) G FLOI	N	a. DAYS	D. MONTHS	(in n		b, TOTAL (specify to	vith units)	C D(
(list)		(list)			(specify average)	(specify average)	I. LONG TERM AVERAGE	2. MAXIMUM DAILY	1. LONG TERM AVERAGE	2. MAXIMUM DAILY	(in de
			12		-						*
							*2	•	:	W	-
PRODUCTION	guideline limitati	00.000	autone d	bu EDAdo	0.04						· · · · · · ·
Does an effluent	complete Item III	B)	nuigated	Dy EPA unge	r Section 304	of the Clean (ly to your fac Section IV)	cility?		
Are the limitation	ns in the applicab	le efflu	ent guide	oline expressed	in terms of p	production (or	other measur	e of operation	n/?		
	complete Item III		9 0.0	A VILLE	-10 A		MNO (80 10				
. If you answered used in the app	licable effluent g	uidelin	e, and in	dicate the aff	resents an act ected outfalls	tual measurer i.	nent of your le	evel of produc	ction, express	ed in the term	s and u
			1.4	VERAGE DA	ILY PRODUCT	TION				2. AFFE	CTED
S, QUANTITY PER D	b, UNITE	PMEA	DHE	a 12" - 1	C. OPE	RATION, PRODU (speci		ETC.	5	OUTF!	ALLS
				D.					3	8	
IMPROVEMENT	<u> </u>				····					100	
Are you now rec water treatment but is not limited or loan condition	uired by any Fed equipment or pra I to, permit cond	tions, a	dministr		cement orders	s, enforcement		charges descr chedule letter			
AGREEMEN		2. 8. NO.		ED OUTFAL	-	3. BRI	EF DESCRIPT	TION OF PRO	DJECT	AL FINA	_
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			51						72		

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INTAKE AND EFFLUENT CHARACTERISTICS S. C. See injuried to be to preceding - Complete one set of tables for each outfall - Annotate the outfall number in the space provided, NOTE: Tables VA, VB, and V-G are included on separate sheet numbered V-1 through V-9. D. Use the space below to list amy of the pollutants listed in Table 2x3 of the Instructions, which you know or have reason to believe is discharged or may posterion only outfall. Sey every pollutant you list, briefly describe the reasons you believe it to be present and separate any mallytical data in your posterion. 1. POLLUTANT	ONTINUED FROM PAGE 2	DE 0000299 -0		Maria Salara
NOTE: Tables V-A, V-B, and V-C re-included on separate thesis numbered V-1 through V-B. Out the special policy to lite any of the politicating integral to page and the politicating of the politicating of many outsile. For every politicating you list, briefly describe the reasons you believe it to be present and report any analytical data in you possession. 1. POLLUTANT 2. SOURCE 1. POLLUTANT 2. SOURCE POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS Larry pollutant listed in item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or ypryoduct? Types //int ail each pollutants below) Set O (so to litem V/B)			***	
disharped from any outfall. For every pollutant you list, prietry describe the reasons you believe it to de present and report any sinelytical data in yi possession. 1. POLLUTANT 2. SOURCE 1. POLLUTANT 2. SOURCE 2. SOURCE 2. SOURCE 3. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS 2. STOURCE 1. POLLUTANT 3. SOURCE 3. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS 2. SOURCE 1. POLLUTANT 3. SOURCE 4. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS 2. SOURCE 1. POLLUTANT 3. SOURCE 4. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS 2. SOURCE 1. POLLUTANT 3. SOURCE 4. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS 2. SOURCE 1. POLLUTANT 3. SOURCE 4. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS 2. SOURCE 1. POLLUTANT 3. SOURCE 1. POLLUTANT 4. SOURCE 1. POLLUTANT 5. SOURCE 1. POLLUTANT 6.	A, B, & C: See instructions NOTE: Tables V	before proceeding — Complete one set of tables for '-A, V-B, and V-C are included on separate sheets n	each outfall — Annotate the outfall nur umbered V-1 through V-9.	mber in the space provided.
. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS any soliutant listed in item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or yproduct? YES (list all such pollutants below) **No (so to Item VI-8)	discharged from any out	fall. For every pollutant you list, briefly describe	e instructions, which you know or have the reasons you believe it to be preser	reason to believe is discharged or may at and report any analytical data in yo
s any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or yproduct? YES (list all such pollutants below) No (go to Item VI-B)	1. POLLUTANT	2, SOURCE	1. POLLUTANT	2. SOURCE
s any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or yproduct? YES (list all such pollutants below) No (go to Item VI-B)		54		
□YES (list all such pollutants below) NO (go to Item VI-B)	Is any pollutant listed in Item	S NOT COVERED BY ANALYSIS V-C a substance or a component of a substance wh	nich you currently use or manufacture a	s an intermediate or final product or
	byproduct?	VES (list all such pollutants below)	Mno igo to Ite	m VI-B)
		The first an order politically	<i>(</i>)	
*	SP.			
9	*			
		9		

VII BIOLOGICAL TOXICITY TESTING DATA	10000	THE RESERVE OF THE PERSON NAMED IN			_
	***	DIOLOGICAL	TOVICITY	TECTIMO	DATA

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

YES (identify the test(s) and describe their purposes below)

No (go to Section VIII)

PER SECTION A, SPECIAL CONDITIONS, #3, OF OUR FERMIT, WE CONDUCTED A ONE-TIME CHRONIC BEMONITORING TEST ON EFFLUENT IN ACCORDANCE WITH THE REQUIRE MENTS SET FORTH IN CFR (40 CFR 136).

VIII.CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?

YES (list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below)

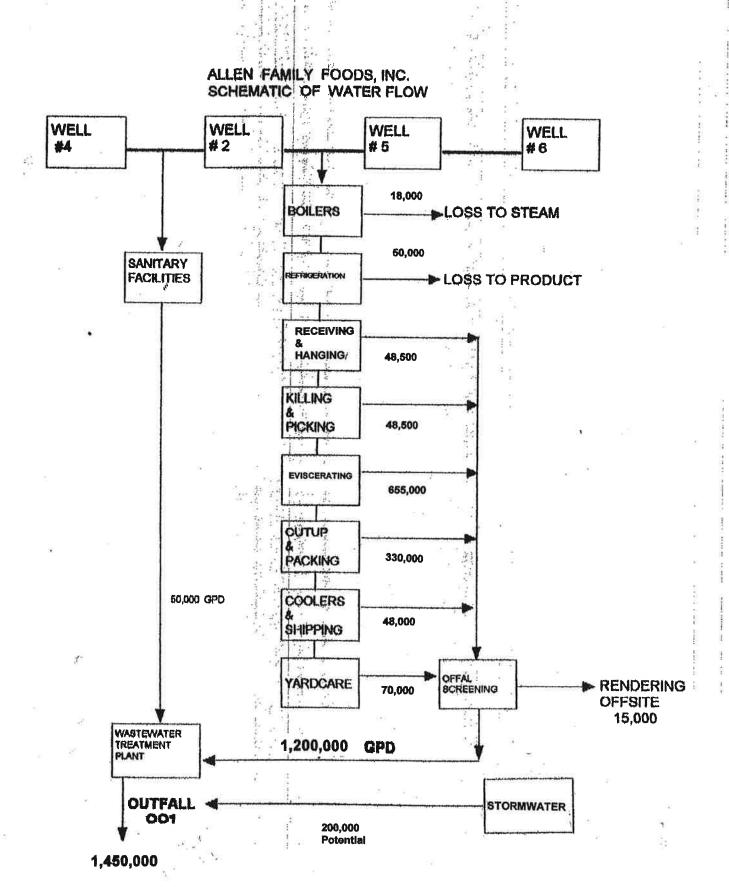
No (go to Section IX)

A. NAME	B. ADDRESS	(area code & no.)	B. POLLUTANTS ANALYZED
ENVIROCORP, INC.	14 COMMERCE STREET HARRINGTON, DE 19952	(302) 39 8- 4313	BODS COD TSS AMMONIA ENTEROCOCCUS TKN ORTHO-P NITRATE NITRITE O&G T. PHOS.

IX. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. NAME & OFFICIAL TITLE (type or print)	B. PHONE NO. (area code & no.)
STEVE HUDSON, ENVIRONMENTAL MANAGER	(302)684-1640 x 184
C. SIGNATURE	D. DATE SIGNED
5t Hur	4/20/04



PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets *(use the same format)* instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER (copy from Item 1 of Form 1)

7 DOOD 200

EE INSTRUCTIONS	NS.	T CHARACTERIS	TICS (continued	EE INSTRUCTIONS.	2	1	DE 0000	00017	į.		OUTFALL NO.	TFALL
PART A - You	must prov	ride the results of	f at least one ar	PART A - You must provide the results of at least one analysis for every pollutant in this table.	ollutant in this ta	ble. Complete one table		each outfall.	See instructio	for each outfall. See instructions for additional details.		
8			F	2. EFFLUENT	C ONG TERM			3. UNITS (specify if blank)) TS	4. INT	4. INTAKE (optional)	
POLICE AND	9 9	(1) (2) MASS		(i) (i) (z) MASS		(i) (z) MASS	d. NO. OF	S. CONCENTRATION	ASS	AVERAGE VALUE	(2) MASS ANALYSES	
. Biochemical)xygen Demand BODJ	2	182			3,41	P.P.C	104	1/5°W	LB/DAY			
. Chemical bxygen Demand COD)	14						_ 1	m9/2	13/DAY			
. Total Organic arbon (TOC)	Ćυ	1 38	-		38.		/	mg/L	13/0AY			
. Total Suspended olids (TSS)	<u>೩</u> ೧	242					104	mg/L	LB/DAY			
Ammonia (as N)	يد	33					104	mall	LB/DAY			
Flow	VALUE	1.45	VALUE	125	VALUE	↑	365-	med		ALUE		- 1
. Temperature winter)	VALUE	7.5	VALUE		VALUE		365	၁		VALUE	W.	- 1
. Temperature summer)	VALUE	بع			VALUE		365	၁°		VALUE	.	
Ī	O WINIWCM	MAXIMUM	WINIMUM	C' &		\bigwedge	365	STANDARD UNITS	STIND	$\setminus /$	\bigwedge	1 1
PART B - Mark which colum	"X" in coluis limited on 2s, you	ımın 2-a for each p aither directly, or in must provide quant	ollutant you kno directly but expre litative data or ar	Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.	believe is present. I nitations guideline, presence in your c	Mark "X" in colu , you must provid lischarge. Compl	mn 2-b for each e the results of a ete one table fo	pollutant you b t least one analy r each outfall. S	elieve to be abs sis for that poll ee the instruct	each pollutant you believe to be absent. If you mark column 2a for any pollutant s of at least one analysis for that pollutant. For other pollutants for which you mark ble for each outfall. See the instructions for additional details and requirements.	olumn 2a for an Ilutants for which I details and requ	트로스
ANT AND	A. MARK 'X'	-	MAXIMUM DAILY VALUE	3. EFFLUENT b. MAXIMUM 30 DAY VALUE	-	C.LONG TERM AVRG. VALUE	VALUE d No	4. U	4. UNITS	5. IN a. LON AVERAG	5. INTAKE (optional) a, LONG TERM AVERAGE VALUE	_ I.~ I
	× 1	CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS CONC	CONCENTRATION	(2) MASS			CONCENTRATION	(2) MASS	YSES
. Chlorine, otal Residual	×	<0,1	んみ	1.07	٨	40,1 42	2 365	65 mg/L	L LB/DAY	Υ		
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En. E.	, 00 01				PAGE V-1	: V-1					CONTINUE ON REVERSE	ان

Total (7440-32-6) w. Tin, Total (7440-31-5) t. Magnesium, Total (7439-95-4) v. Manganesa, Total q. Boron, Total (7440-42-8) k. Suffere (ar SO₄) (14808-79-8) I. Suffide (ar S) s. Iron, Total (7439-89-6) r. Cobelt, Total (7440-48-4) p. Barlum, Total (7440-39-3) m. Sulfite (as SO₃) (14265-45-3) (4) Radium 226, Total L Phosphorus (as P), Total (7723-14-0) Grand g. Nitrogen, Total Organic (of N) x Titanium, (7439-96-6) (7439-98-7) (3) Radium, (2) Beta. Total (1) Alpha, Total . Molybdenum o. Aluminum, n. Surfactants (7429-90-5)ANT AND CAS NO. (If available) Radioactivity EPA Form 3510-2C (8-90) SERVY SERVY CONCENTRATION (2) MASS CONCENTRATION (3) MASS CONCENTRATION (3) MASS CONCENTRATION (3) MASS CONCENTRATION (3) MASS CONCENTRATION (4) MASS CONCENTRAT 2 MARK 'X × × X \times CONCENTRATION 5/10 W 0,0 0 215 37 8.6 CONCENTRATION 3. EFFLUENT PAGE V-2 CONCENTRATION ίŅ 0,48 10 Ŋ イン 9 رم 104 156 TRATION m 5/L 4. UNITS LB/DAY LB/DAY b. MASS CONCENTRATION A PLANCE TERME 5. INTAKE (optional) CONTINUE ON PAGE V - 3 (2) MASS YSES

TEM Y-B CONTINUED FROM FRONT

W. 12.15

EPA I.D. NUMBER (copy from Item I of Form I) OUTFALL NUMBER

DE 0000299

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7M. Lead, Total (7439-92-1) 2,3,7,8-Tetra-chlorodibenzo-P-Dioxin (1764-01-6) 10M. Sejenium, Total (7782-49-2) 9M. Mickel, Total (7440-02-0) 8M. Mercury, Total (7439-97-6) 6M. Copper, Total (7440-50-8) 5M. Chromium, Total (7440-47-3) 4M. Cadmium, Total (7440-43-9) 2M. Arsenic, Total (7440-38-2) 1M. Antimony, Total (7440-36-0) METALS, CYANIDE, AND TOTAL PHENOLS CONTINUED FROM PAGE 3 OF FORM 2-C DIOXIN Total 14M. Cyanide, Total (57-12-5) 13M. Zinc, Total (7440-66-6) 12M. Thaillum, Total (7440-28-0) 11M. Silver, Total (7440-22-4) 3M. Beryllium, Total, 7440-41-7) I. POLLUTANT 15M. Phenois, PART C -(if available) AND CAS of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements. If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a *[secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions]*, mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of a least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results. PTEST D. DE. C. DE. 2. MARK 'X' CONCENTRATION DESCRIBE RESULTS 8. MAXIMUM DAILY VALUE (2) MASS 5. MAXIMUM 30 DAY PALUE CLONG TERM AVEG. VALUE d. NO. OF (if available) ANAL-CONCENTRATION CONCENTRATION A. CONCENTRATION b. MASS TRATION AVERAGE VALUE 5. INTAKE (optional) (2) MASS D 10 0

1. POLLUTANT	1. POLLUTANT 2. MARK 'X'	1		3.	3. EFFLUENT				A UNITS	770	7 2	AVE (and)	1
	-51	E- A MAXIMUM I	A MAXIMUM DAILY VALUE	b. MAXIMUM 30 DAY VALUE	BAY VALUE	CLONG TERM AVEG.	VALUE	A NO. OF	CONCEN.	**	a. LONG		b NO.O
(If available)	Le.	DO SENT SENT CONCENTRATION	(z) wass	(I) CONCENTRATION	(2) MAES	CONCENTRATION	MASO	ANAL.	TRATION	b MASS	(1) CONCENT (2) MASS		YSES
13	11	SUNDOWNO			e								
1V. Acrolein (107-02-8)			5										
2V. Acrylonitrile (107-13-1)	×												
3V. Benzene (71-43-2)	×.												
4V. Bis (Chloro- methyl) Ether (542-88-1)	X												
5V. Bromoform (75-25-2)	X					-							
6V. Carbon Tetrachloride (56-23-5)	×												
7V. Chlorobenzene (108-90-7)	×												
8V. Chlorodi- bromomethana (124-48-1)	×												
9V. Chloroethene (75-00-3)	×												
10V. 2-Chloro- ethylvinyl Ether (110-75-8)	×												
11V. Chloroform (67-66-3)	×	i e											
12V. Dichloro- bromomethane (75-27-4)	×												
13V. Dichloro- difiuoromethane (75-71-8)	X												
14V. 1,1-Dichloro- ethane (75-34-3)	×												
15V. 1,2-Dichloro- ethane (107-06-2)	×				1								
16V. 1,1-Dichloro- ethylene (75-35-4)	X			· ·									
17V. 1,2-Dichloro- propene (78-87-5)	X												
18V. 1,3-Dichloro- propylene (542-75-6)	*												
19V. Ethylbenzene (100-41-4)	×	12							,				
20V. Methy! Bromide (74-83-9)	×										-		
21v. Methyl Chloride (74-87-3)	X												
EPA Form 3510-2C (8-90)	2001												

CONTINUE ON PAGE V-

23V: 1,1,2,2-Tetra-chloroethane (78-34-5) 30V. Trichloro-fluoromethane (75-69-4) 28V. 1,1,2-Tri-chloroethane (79-00-5) 27V. 1,1,1-Tri-chioroethane (71-55-6) 26V. 1,2-Trans-Dichloroethylene (156-60-5) 25V. Toluene (108-88-3) 8A. R-Chloro-M-Crasol (59-50-7) 5A. 2,4-Dinitro-phenoi (51-28-5) GC/MS FRACTION - ACID COMPOUNDS Chloride (75-01-4) 24V. Tetrachloro-ethylene (127-18-4) 10A. Phenol (108.95-2) 6A. 2-Nitrophenol (88-75-5) 4AC 4,6-Dinitro-O-Cresci (534-52-1) 1A. 2-Chlorophenol (96-57-8) 29V. Trichloro-ethylene (79-01-6) EPA Form 3510-2C (8-90) 9A, Pentachloro-phenol (87-86-5) 7A. 4-Nitrophenol (100-02-7) 3A, 2,4-Dimethyl-phenol (105-67-9) 2A. 2,4-Dichloro-phanol (120-83-2) \times × × ~ < PAGE V-5 CONTINUE ON REVERSE

I. POLLUTANT AND CAS NUMBER (II available)

22V: Methylene Chloride (75-09-2)

GCAMB FRACTION - VOLATILE COMPOUNDS (continued)

ATENT D. DE. C. BE. A. MAXIMUM DAILY VALUE

CONCENTRATION

5. EFFLUENT CLONG TERM AVEG. VALUE & NO. OF (1) (1) (2) WASS YSES

CONCENTRATION

A. CONCENTRATION

b. MASS

A LONG TERM
A VERAGE VALUE

(1) CONCERT
(2) MASS

NO. OF

5. INTAKE (optional)

4. UNITS

CONTINUED FROM PAGE V-4

2. MARK 'X'

1. POLLUTANT 2. MARK '3	2. MARK 'X'		3, 6	3. EFFLUENT				A UNITS	STIL	S INT	5 INTAKE (antiqual)	l lair
AND CAS NUMBER	ATEST D. BE- C. BE-	8. MAXIMUM DAILY VALUE	b. MAXIMU	BOY VALUE	C.LONG TERM AVES	VALUE	0. NO. OF	CON	RAGG	A LONG TERM AYERAGE VALUE		D. NO. OF
GC/MS FRACTION	GCMS FRACTION - BASE/NEUTRAL COMPOUNDS	COMPOUNDS	CONCENTRATION	(a) MASS	CONCENTRATION	(2) MANS	YSES			TRATION	1	YSES
18. Acenaphthene (83-32-9)	×											
28. Acenaphtylene (208-96-8)												Ī
38. Anthracene (120-12-7)	×	•										
48. Banzidine (92-87-5)	×											
58. Benzo (a) Anthracene (56-55-3)	×											
68. Benzo (a) Pyrene (50-32-8)	×	٥										
78. 3,4-Benzo- fluoranthene (205-99-2)	×	*	-									
88. Benzo (ghi) Perylene (191-24-2)	×				2#5							
9B. Benzo (k) Fluoranthene (207-08-9)	×											
10B: Bis (2-Chloro- ethoxy) Methane (111-91-1)	×										to j	
118. Bis (2-Chloro- ethyl) Ether (111-44-4)	×											*
128. Bis (2-Chloroiso- propyd Ether (102-60-1)			2:									
138. Bis (2-Ethyl- hexyl) Phtheiste (117-81-7)	×											
148, 4-Bromo- phenyl Phenyl Ether (101-55-3)	× `											
158. Butyl Benzyl Phthaleta (85-68-7)	×	(*)										
188.2-Chloro- naphthalane (91-88-7)	× `			_								1
178. 4-Chloro- phenys Phenyl Ether (7005-72-3)	X					74						
188. Chrysens (218-01-9)	X			20								
198: Dibenzo (a,h) Anthracene (53-70-3)	×											
208. 1,2-Dichloro- benzene (95-50-1)	×											
218. 1,3-Dichloro- benzene (541-73-1)	×											

EPA Form 3510-2C (8-90)

I. POLLUTANT 2. MARK	2. MARK 'X			3. E	3. EFFLUENT	-			4. UNITS	ITS	SINI	S INTAKE (intimal)	di
NUMBER	. P.	a. MAXIMUM DAILY VALUE	CE.	b. MAXIMUM 30 DAY VALUE	BAY VALUE	C.LONG TERM AYRG.	VALUE	d NO.OF	a CONCEN		a. LONG	18	b. NO.C
GC/MS FRACTION	1 0	BASE/NEUTRAL COMPONING (2) MAS	_	CONCENTRATION	(2) MASS	CONCENTRATION	35 V II	ASES	TRATION	D M AVV	(1) CONCEN- (2) MASS		YSES
228-1,4-Dichloro- benzene (106-46-7)	- 1												
238, 3,3*-Dichloro- banzidina (91,94-1)	× ;												
24B, Diethyl Phythalate (84-56-2)	X				K								
25B. Dimethyl Pathelette 1431-1431	×									9			
26B. DHN-Butyl Probation (8474-2)	×												
278, 2,4-Dinitro- toluene (121-14-2)	×												
288, 2,6-Dinitro- toluene (606-20-2)	×												
298. DHN-Octyl Phthalata (117-84-0)													
30B. 1,2-Diphenyi- hydrazine (as Azo- benzens) (122-66-7)	×												
318, Fluoranthene (206-44-0)	×												
328. Fluorene (86-73-7)	×												
338. Hexachlorobenzene (118-74-1)	×												
348. Hexe- chlorobutadiene (87-68-3)	×												
358. Hexachloro- cyclopentadiene (77-47-4)	×												
36B. Hexachloro- ethane (67-72-1)	×												
37B, Indeno (1,2,3-cd) Pyrene (193-39-5)	×												
388. Isophorone (78-59-1)	×												
39B. Naphthalene (91-20-3)	×												
408. Nttrobenzene (98-95-3)	×												
41B. N-Nitro- sodimethylamine (62-75-9)	×												
42B. N-Nitrosodi- N-Propylamine (621-64-7)	×									4			

CONTINUED FROM THE FRONT

T BOI I ITAME	l	1											
AND CAS		,	& MAXIMUM DAILY VALUE	b. MAXIMUM	SO DAY VALUE	CLONG TERM AVEG.	VALUE	NOOR	4. UNITS	NITS	a LONG	۱š.	al)
(If available)	ONE PROPERTY SERVICE	***	(Il available) OUR- PRE: SENT CONCENTRATION (2) MASS		(2) MASS	CONCENTRATION	M > 56	YSES	TRATION	b, MASS	(I) CONCEN. (2) MASS		ANAL.
ASH NAUTON	- BASE/NE	LOIKA	L COMPOUNDS (continued)		,							ш	
sodiphenylemine (86-30-6)		×											
44B, Phenanthrene (85-01-8)		\times		×						PG .			
45B. Pyrene (129-00-0)		×											
46B. 1,2,4 - Tri- chlorobenzene (120-82-1)		×											
GCAMETRACTION - PESTICIDES	- PESTICIO	E											1
19. Aldrin (309-06-2)	-	×											
2P. C.BHC (319-84-8)		×											
эг. β-внс (319-86-7)		×	ž										
49.7-8HC (88-83)	- 1	×											
5Р. б-внс (319-86-8)		×								S			1
6P. Chlordane (57-74-9)		×											
7P. 4,4'-DDT (50-29-3)		×									ā.		
8P. 4,4'-DDE (72-55-9)		×								ř			
9P. 4,4:-DDD (72-64-8)		×			82								
10P. Dieldrin (60-57-1)		×				٠			-				
11P. Q-Endosulfan (115-29-7)		×											1
12P. β-Endosulfan (115-29-7)		×											
13P. Endosulfan Sulfate (1031-07-8)		×											1
14P. Endrin (72-20-8)		\times											
15P. Endrin Aldehyde (7421-93-4)		×											
16P. Heptachlor (76-44-8)		×				JISSE S							
EPA Form 3510-2C (8-90)	(8-90)				PAGE	SE V-8					CONT	CONTINUE ON PAGE V-9	35

DE 0000 & 99 OUTFALL NUMBER

21P. PCB-1232 (11141-16-5) 20P, PCB-1221 (11104-28-2) 1. POLLUTANT AND CAS NUMBER GC/MS FRACTION — PESTICIDES (continued)
17P. Heptachlor
Epoxide
(102457-3) CONTINUED FROM PAGE V-8 25P. Toxaphene (8001-35-2) 24P. PCB-1016 (12674-11-2) 23P, PCB-1260 (11096-82-5) 22P. PCB-1248 (12672-29-6) 19P, PCB-1254 (11097-69-1) 18P. PCB-1242 (53469-21-9) (if available) ATEST C. SEC. G. MAXIMUM DAILY VALUE D. MAXIMUM 30 DAY VALUE C.LONG TERM AVEC. VALUE d. NO. OF B. CONCENTRATION (1) MASS CONCENTRATION (2) MASS CONCENTRATION (2) MASS CONCENTRATION (3) MASS CONCENTRATION (4) MASS CONCENTRATION (5) MASS CONCENTRATION (6) MASS CONCENTRATION (6) MASS CONCENTRATION (6) MASS CONCENTRATION (6) MASS CONCENTRATION (7) MASS CONCENTRATION (7 4. UNITS b. MASS 5. INTAKE (optional)
A. LONG TERM
AVERAGE VALUE
(1) CONCERN (2) MASS
TRATION
(2) MASS
YSE ANAL-YSES

PAGE V-9

Please print or type in the unshaded areas only

DE 0000 299 - 002

Approval expires 5-31-92

Form NPDES



United States Environmental Protection Agency Washington, DC 20460

Application for Permit to Discharge Storm Water Discharges Associated with Industrial Activity

Paperwork Reduction Act Notice

Public reporting burden for this application is estimated to average 28.6 hours per application, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate, any other aspect of this collection of information, or suggestions for improving this form, including suggestions which may increase or reduce this burden to: Chief, information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M St., SW, Washington, DC 20460, or Director, Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC

I. Outfall Location										
For each outfall, list the lat	titude and	longitude (of its locat	on to the n	nearest 15	seconds an	d the name of the re	ceiving water		5.
A. Outfall Number								. Receiving \		
(list)		B. Latitude		l c	. Longitud	de		(name)		
002	38	43	fl	75	17	22	BEAVER	DAM	BRANCI	4
1							000			
							15			
TOURS IN THE SHOOT MILESTON									,	
				=92==131 0.40						
					F)				1	
			8	111111111111111111111111111111111111111						
	All Control	8								
					9. Y	2	· ·			
7.5			gi ² :	4.50		7 D		20		
II. Improvements										
operation of wastewa in this application? To schedule letters, stipu		es, but is n urt orders,			t condition nditions.	ns, administ	rative or enforcement	nt orders, en		pliance
Identification of Condi	tions,		2. Affecte	d Outfalls					Complia	ance Date
Agreements, Etc.		number-	SOUI	rce of disch	narge	7273	3. Brief Description of	Project	a. req.	b, proj.
						2				
					¥	5 5	125			
	(1					3				
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X 10										
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You may attach additional sheets describing any additional water pollution (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

III. Site Drainage Map

Attach a site map showing topography (or indicating the outline of drainage areas served by the outfall(s) covered in the application if a topographic map is unavailable) depicting the facility including: each of its intake and discharge structures; the drainage area of each storm water outfall; paved areas and buildings within the drainage area of each storm water outfall, each known past or present areas used for outdoor storage or disposal of significant materials, each existing structural control measure to reduce pollutants in storm water runoff, materials loading and access areas, areas where pesticides, herbicides, soil conditioners and fertilizers are applied; each of its hazardous waste treatment, storage or disposal units (including each area not required to have a RCRA permit which is used for accumulating hazardous waste under 40 CFR 262.34); each well where fluids from the facility are injected underground; springs, and other surface water bodies which receive storm water discharges from the facility.

Continue	ed from the Front			· · · · · · · · · · · · · · · · · · ·	
IV. Na	rrative Description of Polic	utant Sources		· · · · · · · · · · · · · · · · · · ·	
A. Fo	or each outfall, provide an estima ne outfall, and an estimate of the to	ite of the area (include units) of total surface area drained by the	f impervious e outfall.	surfaces (including paved areas	and building roofs) drained to
Outfall	Area of Impervious Surface	Total Area Drained	Outfall	Area of Impervious Surface	Total Area Drained
Number	(provide units)	(orovide units)	Number	(provide units)	(provide units)
	. *	a see a		<u> </u>	
002	1	4			ľ
15.0					ia
B. Pr	rovide a narrative description of s	significant materials that are cu	irrently or in	the past three years have been t	reated, stored or disposed in a
911	mployed to minimize contact by no frequency in which pesticides,	r inese materials with storm wa	ater runotti n	materials loading and george or	terials management practices as; and the location, manner,
	d fieldency in which pesticides,	nerbicides, soil conditioners, a	na teruiizere	are applied.	- 1000 S
	90.00			8.	P
	IA				
	bl.,				
	3	3	131		9
					X
	_0	* ·			87 Av.
C. Fo	or each outfall, provide the locati	ion and a description of exist	ing structure	al and nonstructural control mer	asures to reduce pollutants in
- all	orm water runoff; and a description of treatment measures and the ult	timate disposal of any solid or	fluid wastes	other than by discharge.	pe of maintenance for control
Outfall Number	15.	* * * *			List Codes from
Number	Sounit Course -	CONCRCTO Sun		all Delina D Like	Table 2F-1
002	LUCHTIMEZ.	LONING 12 Juni	1 wi	74 PUMP TO WAS	TEWATER 1-14
UUL	WEST FUNCE -	CONCRETE Sum	IP WIT	14 PUMP TO WASTE	EWHER I-M
V. Non	stormwater Discharges				
A. I co	ertify under penalty of law that the	ne outfall(s) covered by this appropriate discharges from these	plication hav	e been tested or evaluated for the	ne presence of nonstormwater
	polication for the outfall. d Official Title (type or print)	Signature	Julianital	I Identified III district on where	
	A STATE OF THE STA				Date Signed
		5			
B. Pro	ovide a description of the method	used, the date of any testing,	and the onsi	te drainage points that were direc	ctly observed during a test.
	u ×	23			
	W 38	*(
		10			
11 Olai		(9)	a a		+
	nificant Leaks or Spills				
years, i	e existing Information regarding including the approximate date as	the history of significant leak and location of the spill or leak,	s or spills of and the type	f toxic or hazardous pollutants a and amount of material released	at the facility in the last three
					**

EPA ID Number (copy from Item I of Form 1)

Continued from Page 2	DF. 00002	99-002	41	
VII. Discharge Information		12 AZING NO 7 7 - 107	version of the state of the	7. TVOVINU - TO SOME
A,B,C, & D: See instructions before proceeding.	Complete one set of table	s for each outfall. Annot	ate the outfail numb	er in the space provided.
Tables VII-A, VII-B, and VII-C are incl				K 7
E: Potential discharges not covered by analysis	is any toxic pollutant listed	d in table 2F-2, 2F-3 or	2F-4, a substance or	a componant of a substance
which you currently use or manufacture as a	n intermediate or rinai produ	uct or byproduct?		Anna anna an Aireanna
Yes (list all such pollutants below)			X No	(go to Section IX)
	***	10 g		2 2
The at Mile texter?	BX6	Y 9		
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	N N		į.	
VIII. Biological Toxicity Testing Data		- AND ASSESSMENT OF THE PROPERTY OF THE PROPER		
Do you have any knowledge or reason to believe on a receiving water in relation to your discharge	that any biological test for	r acute or chronic toxic	ity has been made o	n any of your discharges or
on a receiving water in relation to your discharge	within the last 3 years?		ì	
Yes (list all such pollutants below)			No	(go to Section IX)
25 1				
	7.7.		9	54
4	· · · · · · · · · · · · · · · · · · ·			
145	*			
	(2)			8
	•	12		
			9 0	1.2
			52	
*			3	
			3 3 3	
IX Contract Analysis Information				
IX. Contract Analysis Information Were any of the analysis reported in item VII per	formed by a contract labor	atory or consulting firm?		
Were any of the analysis reported in item VII per	**		-	6.1.0
Were any of the analysis reported in item VII per	**		-	(go to Section X)
	**	ollutants	-	(go to Section X) D. Pollutants Analyzed
Were any of the analysis reported in item VII per Yes (list the name, address, and tele analyzed by, each such laboratory)	ophone number of, and po or firm below)	ollutants	□ No	D. Pollutants Analyzed
Were any of the analysis reported in item VII per Yes (list the name, address, and tele analyzed by, each such laboratory A. Name	phone number of, and po or firm below) B. Add	ollutants Iress C. Area	Code & Phone No.	D. Pollutants Analyzed
Were any of the analysis reported in item VII per Yes (list the name, address, and tele analyzed by, each such laboratory)	phone number of, and poor firm below) B. Add	ollutants Iress C. Area E ST. (362)	□ No	D. Pollutants Analyzed Ro D 5 T.5.5
Were any of the analysis reported in item VII per Yes (list the name, address, and tele analyzed by, each such laboratory A. Name	Phone number of, and poor firm below) B. Add JH COMMERC HARRINGTON	Dilutants C. Area E ST. (362)	Code & Phone No.	D. Pollutants Analyzed BOD5 T55 O 66
Were any of the analysis reported in item VII per Yes (list the name, address, and tele analyzed by, each such laboratory A. Name	Phone number of, and poor firm below) B. Add JH COMMERC HARRINGTON	Dilutants C. Area E ST. (362)	Code & Phone No.	D. Pollutants Analyzed ROD5 T5.5 O 6 G- TP
Were any of the analysis reported in item VII per Yes (list the name, address, and tele analyzed by, each such laboratory A. Name	Phone number of, and poor firm below) B. Add JH COMMERC HARRINGTON	Dilutants C. Area E ST. (362)	Code & Phone No.	D. Pollutants Analyzed BOD5 TSS Of G- TP NH3
Were any of the analysis reported in item VII per Yes (list the name, address, and tele analyzed by, each such laboratory A. Name	phone number of, and poor firm below) B. Add	Dilutants C. Area E ST. (362)	Code & Phone No.	D. Pollutants Analyzed BOD5 TSS OFG TP NH3 TKN
Were any of the analysis reported in item VII per Yes (list the name, address, and tele analyzed by, each such laboratory A. Name	Phone number of, and poor firm below) B. Add JH COMMERC HARRINGTON	Dilutants C. Area E ST. (362)	Code & Phone No.	D. Pollutants Analyzed ROD5 T55 Of6 TP NH3 TKN OP
Were any of the analysis reported in item VII per Yes (list the name, address, and tele analyzed by, each such laboratory A. Name	Phone number of, and poor firm below) B. Add JH COMMERC HARRINGTON	Dilutants C. Area E ST. (362)	Code & Phone No.	D. Pollutants Analyzed ROD5 T55 O\$6 TP NH3 TKN OP NO3 FECAL
Were any of the analysis reported in item VII per Yes (list the name, address, and tele analyzed by, each such laboratory A. Name ENVIROCORP, INC	Phone number of, and poor firm below) B. Add JH COMMERC HARRINGTON	Dilutants C. Area E ST. (362)	Code & Phone No.	D. Pollutants Analyzed ROD5 T55 Of6 TP NH3 TKN OP
Were any of the analysis reported in item VII per Yes (list the name, address, and tele analyzed by, each such laboratory A. Name ENVIROCORP, INC	Phone number of, and poor firm below) B. Add JH COMMERC HARRINGTON,	Dilutants C. Area E ST. (362) DE	No Code & Phone No.	D. Pollutants Analyzed BOD5 TSS OFG TP NH3 TKN OP NO3 FECAL NO2 ENTEROCOCCUS
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EPAID Number (copy from Item I of Form 1) DE 0000299-002

Form Approved. OMB No. 2040-0086

Approval expires 5-31-92

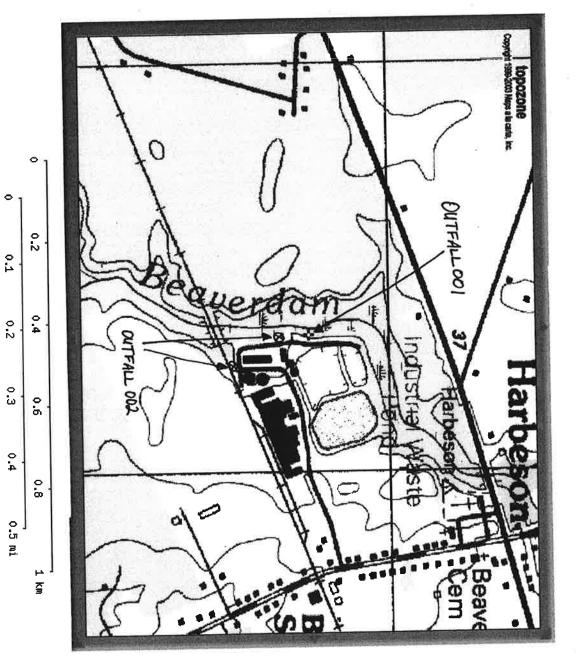
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Pollutant	(includ	1 5	and the second second	le unite)	of	
and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-weighted Composite	Storm Events Sampled	Sources of Pollutants
Oil and Grease	15,3 mg/L	N/A			7 2	PREVIOUS ANALYSES
Biological Oxygen Demand (BOD5)	28.2 male			0		,
Chemical Oxygen Demand (COD)						
Total Suspended Solids (TSS)	679 mg/L				1	
Total Nitrogen	9,65 mg/L			2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Total Phosphorus	1,84 mg/L			S	1	W R
ρΗ	Minimum	Maximum	Minimum	Maximum		
Part B - List ea permit the ins	tructions for addition	ial details and requi	rements.		to or any p ermit). Co	ollutant listed in the facility's NPDE mplete one table for each outfall. Se
Pollutant	Maximur (includ	TWO SECTIONS	2004 0-000 0-0	Values e units)	Number of	
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THE QUALITY CHICKEN PEOPLE

ALLEN FAMILY FOODS, INC.

P.O. BOX 63 HARBESON, DE 19951 302/684-1640 FAX: 302/684-1638

May 13, 2004

Delaware Department of Natural Resources and Environmental Control Division of Water Resources 89 Kings Highway Dover, Delaware 19903

Attn:

Mr. Peder Hanson

Program Manager

Re:

NPDES Permit No. DE 0000299

Allen Family Foods - Harbeson

Subject:

NPDES Renewal Application

Dear Mr. Hanson:

Enclosed you will find our bioassay results for the April 2004 chronic test. This should satisfy the requirements for the application for re-issuance of the NPDES permit to discharge treated process water and storm water to Beaverdam Creek.

If you have any questions, please do not hesitate to contact me at 684-1640 x184.

WATER RESOURCES OF DISCHARGES OF

Respectfully submitted,

ALLEN FAMILY FOODS, INC.

St Andr

Steve Hudson

Wastewater Manager

AES

Aquatech Environmental Services, Inc. 503 Central Drive East, Suite 101 Virginia Beach, VA. 23454 (757) 631-2755



Certificate of Results

Allen Family Foods, Inc. 18752 Harbeson Road Harbeson, Delaware 19966 (302) 684-1640 Steve Hudson

> **DE0000299** 040428-C-1-A0404

Composite Samples 26-27 April, 2004

Receipt Date: 28 April, 2004 Initial Test Date: 28 April, 2004

7 Day Survival & Reproduction

Ceriodaphnia dubia
7 day Survival & Growth

Pimephales promelas

Omelis 3. Da Cruss

Lab Director: Amelia Da Crus

QA/QC Officer: Nelson Dacruz

Results relate only to the items tested of the sample as received by the Laboratory.

Certifies that data meets all of the requirements of NELAP

Certifies that data does not comply with NELAP Standards

Non-Compliance Notes/ Sample Deviations: None

MAY | 2004

This report contains <u>24</u> pages.

DIV. OF WATER RESOURCES SURFACE WATER DISCHARGES SECTION

This Certification Shall Not Be Reproduced, Except In Full, Without Written Approval of AES, Inc.

Aquatech Environmental Services, Inc. 503 Central Drive East, Suite 101
Virginia Beach, VA. 23454
(757) 631-2755

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General Summary & Discussion

General Data Summary Methods & Materials Discussion

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7 day Chronic Tests

Ceriodaphnia dubia
Pimephales promelas
Raw Data & Statistical Support

Reference Tests: Control Charts

Ceriodaphnia dubia Pimephales promelas Aquatech Environmental Services, Inc. 503 Central Drive East, Suite 101 Virginia Beach, VA. 23454 (757) 631-2755

3 of 24

Certificate of Results

Allen Family Foods, Inc.

DE0000299 040428-C-1-A0404

Composite Samples

26-27 April, 2004

Receipt Date: 28 April, 2004 Initial Test Date: 28 April, 2004

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein; and based on my inquiry of the individuals personally responsible for obtaining the information, I believe the attached information is true, accurate and complete. I am aware there are significant penalties for submitting false information, including the possiblity of fine or imprisonment as provided by state and federal laws.

Signature of Facility Authorized Representative

Submission Date

General Summary

Allen Family Foods, Inc. 040428-C-1-A0404

4/26-4/27/04; 09:00-09:00 Initial Sample Date Outfall 001

Ceriodaphnia dubia	Results		100% Effluent	Dil. Water	RT/ (cdcl)
	95		27		*
7 day Chronic	NOEC	TU			
Survival & Reproduction	100.00%	1	PASS		
48 hour survival-LC50	>100%				
Survival	100.00%		100%	100%	12.5 ug/L
Reproduction	100.00%		18	18.8	6.25 ug/L
IC25	>100%				12.36 ug/L
Pimephales promelas	Results	in in a la	100% Effluent	Dil. Water	RT/ (cdcl)
==					
7 day Chronic	NOEC	<u>TU</u>			
Survival & Growth	100.00%	1	PASS		
			PASS		
Survival & Growth	100.00%		PASS 72.5%	80.0%	6.25 ug/L
Survival & Growth 96 hour survival-LC50	100.00% >100%		, , , , ,	80.0% 0.3125	6.25 ug/L 12.5 ug/L

Discussion: Fathead growth is based on the original number of organisms. Organisms appeared normal.

5 of 24

Methods & Materials

Allen Family Foods, Inc. 040428-C-1-A0404

Results: 100% effluent was tested using Ceriodaphnia dubia in a 7 day chronic series. The performance was compared to Moderately Hard control water for the following endpoints: survival & reproduction. All statistics were calculated and provided. The following results from this event show **no significant difference** for either of the organisms used, and therefore passed the minimum criteria.

The methods used for the following tests adhere to our SOP for Chronic Toxicity Testing, thereby conforming to the recommended guidelines in Short-term Methods for Estimating the Chronic Toxicity of Effluent and Receiving Water to Freshwater Organisms, 4th Edition, EPA-821-R-02-013

Ceriodaphnia dubia

Chronic 7 day- Survival & Reproduction

Organisms 20 hours of age were randomly selected and placed into labeled 30 ml disposable test tubes. A total sample volume of 15 ml was used in each test tube. All tests were initiated using 10 replicates in the 100% and the control. Samples were measured prior to initiation of each renewal for D.O., pH, temperature, conductivity, alkalinity, total residual chlorine and hardness. After the initial readings are taken 2 mls of a 2:1:2 algal suspension is mixed with 150 mls of each effluent concentration. This is then divided proportionally between the 10 replicate test tubes. One organism was placed into each replicate test tube in a random order. The test tubes were maintained on a rack and carefully placed in an incubator which maintained a recorded temperature of 25 ± 1 degree Celcius. The D.O. temp., pH, mortality and brood were measured prior to each renewal on the decanted portion of a replicate in each concentration. To renew the solutions, the C. dubia adult was actually removed and placed into a totally new solution. The remaining liquid was decanted off into a petri dish and any brood counted. These dilution's were renewed daily until 80% of the controls had achieved third brood. Survival & reproduction were used to determine the NOEC values.

6 of 20

Allen Family Foods, Inc.

Methods & Materials

040428-C-1-A0404

Sample Prep: 100% effluent was tested using Pimephales promelas in a 7 day chronic series. The performance was compared to Moderately Hard control water for the following endpoints: survival & growth. All statistics were calculated and provided.

The methods used for the following tests adhere to our SOP for Chronic Toxicity Testing, thereby conforming to the recommended guidelines in Short-term Methods for Estimating the Chronic Toxicity of Effluent and Receiving Water to Freshwater Organisms, 4th Edition, EPA-821-R-02-013

Pimephales promelas

Chronic 7 day- Survival & Growth weight

Organisms 20 hours of age were randomly selected and placed into labeled 400 ml disposable beakers. A total sample volume of 250 ml was used in each beaker. All tests were initiated using 4 replicates in the 100% and the control. Samples were measured prior to initiation of each renewal for D.O., pH, temperature, conductivity, alkalinity, total residual chlorine and hardness. A total of 10 organisms were placed into each replicate beaker in a random order. The beakers were carefully placed in an incubator which maintained a recorded temperature of 25 ± 1 degree Celcius. The D.O. temp., pH and mortality were measured prior to each renewal on the decanted portion of a replicate in each concentration. To renew the solutions, the solution was decanted off to a low volume of 10 mm was achieved, the renewal solution was then slowly poured into the container. These samples were renewed each of the 7 days. The fatheads were fed twice daily artemia < 24 hours old. Upon completion of the tests the organisms were dried and weighed to determine a NOEC for survival & growth.

AQUATECH ENVIRONMENTAL SERVICES, INC.

Chain-of-Custody

Company Name				Permit Nu	ımber				1
ALLEN F	FAMILY	FOODS,	INC	DE	000	0299			h-
Project Manager				Phone Nu	mber				All Annual
STEVE	HUDSO)/U			又-68	<u> 84 - 16</u>	40		127
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Sample		Collection	Sample Type Grab /Comp	Volume Collected	Flow	Temp	Chlorine		503 Central Drive East, Suite 101
Source		4/27/04			MGD	Celcius	mg/L	pН	Virginia Beach, VA 23454 (757) 631-2755
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	ļ								nelac
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AQUATECH ENVIRONMENTAL SERVICES, INC.

Chain-of-Custody

Company Name				Permit Nu	mber				
ALLEN FA	AMILY	FOOD.	S	DE	E 000	0029	9		A
Project Manager	11			Phone Nu	mber				MAN
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001	4/28/04	4/29/04	24 HR COMP	1 GAL	1.18	a°	0	6.55	(757) 051-2755
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Chain-of-Custody

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Sample	Sample C	Collection	Sample Type		Flow	Temp	Chlorine		503 Central Drive East, Suite 101
Source			Grab /Comp	Collected	MGD	Celcius	mg/L	pН	Virginia Beach, VA 23454
DISCHARGE	4/3° 0930	5/01	Comp	16AC	1.3	3 4	N.D.	6.45	(757) 631-2755
001									3.5
									neac
									7.0110061
	 							-	Primary # 01102CA Secondary # E87842
									NRC License # 45-25198-01
	 								FDA #0015001125059
		1							
RECEIVING ST	REAM (if kno	wn):		0.5			MARIN	1E	FRESH
Saipped by (circle	e one):	UP	S FEDEX	AIRBOR	NE HA	ND DELI	VERED	OTHE	ER
Tracking#				10	In:	In Z 3 I			
Relinquished by:			ت	Date 1/34	Time 1220	Received	- / / 14	Colle	1
Relinquished by:				Date	Time	Received	and the second	ev.	
Nett. quished by,				Date	Time	I COUNTED	· , .	0	
LAB USE ONLY	, LANGE AND	2.0	INTERN.	AL TRA	CKING				LAB USE ONLY
erinisms Requi	CONTRACTOR	Other:							
((CD) (PE) cv	AB		AA	HA			Radioactivity Information
t ength:		Other:	Son		20	,			(if Required)
	24 48 1 NTBF	96 2 hrs	(7d) 14		300		aily (1-2X)	1	Background mr /Hr Standard mr /Hr
Finding Required	F NIDE	2 1115	prior to renew	at (acutes)		V D.	any (t-220)	4	Cooler mr/Hr
Technician	UBC	7							Sample mr / Hr
Sample ID		-]	
Analytical			agairtína a la	学の研究	MANN.			6	Compliance Information
Evanp ⁹ C	13.7							4	yes no by
165	7.25							4	AES Sampler ves vno On ICE ves no
Sitting/L)	9.0	 		-				-	On ICEyesno Holding metyesno
Alk (mg/L) Hankmg/L)	32.0			+		-		1	Receipt OK /yesno
Anon (mg/L)	0.12	1						7	
reinite (mg/L)	0.021]	Non-compliant-Client Notified
Nitable (mg/L)	10.42							1	yes no by
Colorine (mg/L)	0.04			-				4	Authorized by:
cond (umbos)	587			-				-	() Date/Time;
Sit organic	0.5							-	Date/Tille,
Supplemente.	Mone	-		+		 		1	SAMPLE DISPOSAL
No sowan	NOTE	1	1			- L		⊒ J ==5	
205,	5/02/5	103,5/04							by Lab Return
Section 1		none	yes:		les/ minut		inutes		
Na-thio		none	yes:		ps of 0.11		ers		30 day (standard) 60 days
Addition		✓ none	yes:	() dro	ops() li	iers			Other

Aquatech Environmental Services, Inc. 503 Central Drive East, Suite 101 Virginia Beach, Va. 23454



Sample Information

Accreditation # 01102CA

1.0 Facility:

2.0 Sample ID:

2.1 Quantity of Samples:

2.2 Initial Receipt Date/ Time 2.3 Temperature @ Receipt:

Allen Family Foods, Inc. 040428-C-1-A0404 Outfall 001 3 samples

4/28/04; 09:45 0.5

7 day Chronic Toxicity Ceriodaphnia dubia

Survival & Reproduction

Submitted to:Steve Hudson 6-May-04 Date Prepared

2.4	Chemistry	Performed @ Receipt:	
		pН	
		D.O. (mg/L)	
		The Contract of the Contract o	

Performed @ Receipt:	100% Effluent	The state of the same	MHW
рН	7.58	Printed Control	7.8
D.O. (mg/L)	9.2		8.5
Alkalinity (mg/L)	101.9		61.14
Hardness (mg/L)	26		80
Ammonia (mg/L)	0.11		< 0.01
Nitrite (mg/L)	0.005		< 0.01
Nitrate (mg/L)	0.2	Walter States	< 0.001
Chlorine (mg/L)	< 0.01		< 0.01
Conductivity (umhos)	762	A FASILE N	300
Salinity (ppt)	0.5		< 0.1

2.5 Dilution Water:

Source & Storage:	MHW	Sample type:	grab
Date/Time prepared:	4/28, 4/30, 5/02		
Pretreatment Info:	None		

2.6 Sample Storage:

4°C

2.7 Sample Preparation:

Warm to 25 celcius, 0.5 dilution

6.1 Results:

Software & Statistical

Methods Used:	Fisher's Exact & Shapiro's Wi	lkes
Homogeneous:		
Normal Variances:	Yes	

Endpoints:

LC50	>100%	NOEC	100.00%
lower 95 %	(*)	LOEC	> 100 %
иррег 95%	//2	TU	1.00
TU	na	Control to the Control of the Contro	

Summary of Physical & Chemical Parameters:

-	_		_	
A	Æ	u	r٩	X.

	Range	Mean
Temperature °C	24.5-25.7	24.91
pH	7.80-8.22	7.95
D.O. (mg/L)	8.4-8.8	8.54
Conductivity	300-300	300.00
Salinity	< 0.1	< 0.1

100% Efflu.

	AUU IU ZIIIIUI	
A DE LANGUE STATE OF	Range	Mean
Temperature °C	24.3-25.8	24.9
рН	7.32-8.27	7.7
D.O. (mg/L)	8.4-9.0	8.8
Conductivity	947-983	962.0
Salinity	na	na



Test Conditions

1.0 Facility:

2.1 Sample ID:

2.1 Quantity of Samples:2.2 Initial Receipt Date/ Time

2.3 Temperature @ Receipt:

Allen Family Foods, Inc. 040428-C-1-A0404 Outfall 001 3 samples

4/28/04; 09:45 0.5 7 day Chronic Toxicity

<u>Ceriodaphnia dubia</u>

Survival & Reproduction

Submitted to:Steve Hudson

6-May-04

Date Prepared

Test Conditions

Toxicity Test Method: EPA-821-R-02-013
Enpoints: Survival & Reproduction
Deviations: None
Start Date/Time: 4/28/04; 12:00
End Date/Time: 5/05/04; 12:15
Samples Renewed: Daily
If Yes, within +/- 2 hour of Test Initiation: Yes

Test Chamber Size:	30 ml	
Sample Volume:	15 ml	
Number of Replicates:	10	
Organisms / Replicate:	i	

Food Type:	3 algae
Date/Time:	daily @ renewal
Concentration or Age:	5-7 days
Date Prepared:	4/23-4/29/04

Acclimation of Organisms:	Hatched in 25 °C	法是公司的	Survival %
Test Temperature: mean	24.91	MHW	100%
Test Conductivity: mean	300	100% Effluent	100%

Aeration Necessary:	Yes, 1st sample only.	
Organism weighed:	<u>na</u>	
Chemistries performed:	in vessels	1
Randomization:	in accordance with Toxcalc	

Test Organisms	Ceriodaphnia dubia	Taxonomic Key:	Pal, 1980		
Age of Organisms:	20 hours		3171st		
Source of Cultures:	AES Inhouse	Generation:			
mean control org/rep	18.8	Holding Conditions:	1/ml		
100% Effluent	18	Treatments:	none		

5.1 Quality Assurance / Quality Control

Reference Toxicant:	Cadmium Chloride	RT Results	4/06/04: 11:20		
Source:	ERA	Survival-NOEC	12.5 ug/L		
Date Received:	28-Feb-03	Reproduction-NOEC	6.25 ug/L		
Lot #	0225-03-01	IC25	12.36 ug/L		

Test ID: NPDES # Source:	Allen Family Foods, Inc. DE0000299	Dilution water type: Organism Type: Test Type:	80 mg/L MHW Ceriodaphnia dubia Survival & Reproduction			
Source: Source: Date/Time Collected Sample Type: Sampler: Date/Time Started: Info Upon Receip	4/26/04-4/27/04; 09:00-09:00 composite ADC/NDC/MAF A/28/04 //200	Age of Organisms: Test Volume: Chamber size: Date / Time Ended:	20 hours Gen. 3171 15 mls 30 mls 575 04 1215			
pH Chlorine Ammonia Temperature	7.58 Di <0.81 mg/L	xxolved Oxygen 9.28 Conductivity 762 Total Alkalinity 101.5 Total Hardness 26	unkor			

Conci	bol									700	
Control		Day 0	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Comments
Гемр	leitial	245	24.7	24.5	25.7	25.6	25.4	24.9			final pHol
* C	Final		25.0	24.6	24.5	248	24.9	24.8	249		,
H	hitist	7.80	1.86	7.79	7.83	7.81	1.88	7.82			
	Final		2.64	8:12	8.11	7.99	8.03	8.08	8.00		
DO .	Initial	185	8.5	8.5	8.5	8.4	85	8.5			
	Final		A.B	8.6	8.6	8.5	8.5	8.5	8.4		
Final Rep	licate		1	2	3	4	5	6	7		
Conduct	tivity	300	300	300	300	<i>3</i> Co	300	300			
Alkalinity	mg/L	61.14	61.14	61.14	61.14	6114	101.14	61.14			
Hardness	mg/L	80.0	20.0	80.0	80.0	80.0	80.0	80.0		114	
Chlorine	mg/L	40.01	40,01	10.01	40,01		10.01	20.01			
TIM	IE	1200	1330	1158	1040	1330	1130	1230	145		
INITL	ALS	Ar	MAK	A	An	1	MAK	MAR	MAK	-	

Conc:											·	í
1C	06%	Day 0	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Comments	
Гемр	Initial	24.9	25.2	24.4	24.3	25 B	25.7	24.7	H		SinalpH	day 1
* C	Final		25.0	24.7	24.6	24.7	249	24.8	24.9			
H	laitial	1.35	7.56	7.35	7.34	7.32	7.35	7.33				Į
	Final		472	8.08	8.05	7.99	8-01	8.04	7.99			1
DO	Initial	9.0	8.9	8.9	8.8	89	8.9	9.0				1
	Final		8.7	8.7	8.6	8.4	8.5	8.6	8.7			
Final R	eplicate		1	2	3	14	5	6	1			1
Condu	ctivity	1983	983	947	947	958	958	958				1
Alkalini	ity mg/L	101.9	101.9	61.14	61.14	61.14		@1.14				
Hardne	ss mg/L	26	26.0	34.0	34.0	32.0	37.0	32.0			i.	ļ
Chlori	ac mg/L	4001	20.01	0.01	0.01	0.04	0.04	0.04				
T1	ME	1201	1331	1151	1041	1331	1131	1231	1216			
INI	TIALS	6	MOY	A	b	A	MAY	MAR	MIRK			

Organism Source: Inhouse page [3 of 24]

Test ID: NPDES Source: Date/Time Collected	Allen Family Foods, Inc. DE0000299 001 4/26/04-4/27/04; 09:00-09:00		80 mg/L MHW Ceriodaphnia dubia Survival & Reproduction 20 hours Gen. 3171
Sample Type: Sampler: Date/Time Started: Info Upon Receipt	ADC/NDC/MAF 4/28/04 1200	Test Volume: Chamber size: Date /Time Ended:	15 mls 30 mls 5 15 04 1215
pH Chlorine Ammonia Temperature	7.58 <0.01 mg/L 0.11 mg/L 0.5 °C	Dissolved Oxygen 9.28 mg/L Conductivity 762 mmhos Total Alkalinity 101.9 mg/L Total Hardness 26 mg/L	

Conc:	Rep	1	2	3	4	5	6	7	8	Totals	Comments
	1	0	0	0	4	3	-8	0		20	
Control	2	0	0	0	4	જ	8	0		20	
CHUNG	3	0	0	0	4	8	8	0		20	
	4	٥	0	0	4	8	8	0		20	
	5	0	0	0	4	Q	B	0		18	
	6	O	0	0	4	6	8	0		18	Ø.
	7	0	0	0	+	6	4	0		18	
	8	0	0	0	+	6	8	0		18	
	9	0	0	0	4	6	8	0		18	
	10	0	0	0	4	0	8	0		18	
Time		133+	1155	1030	1335	1134	1234	12191			
Initials		han	b	11	do.	MAR	MAX	MAR			
Initials		tiens	Jan .	بم	<u></u>	MAR	MOX	MAR			
Initials Conc:	Rep	time	2	3	4	MPSF 5	NOY	MAR	8	Totals	Comments
	Rep		2	,			6		8	Totals	Comments
Conc:	1	1 0	2	3	4	5	6 8	7	8		Comments
		1	2 0 0	3 0 0	4 4	5	6 X 8	7	8	18	Comments
Conc:	1 2 3	1 0 0	2 0 0	3 0 0	4 4 4	5 \(\varphi \)	6 8 8	7 0	8	18	Comments
Conc:	1 2	1 0 0 0	2 0 0 0	3 0 0 0	4 + + + +	5 9 9	6 X X X	7 O O	8	18	Comments
Conc:	1 2 3 4 5	1 0 0 0 0	2 0 0 0 0 0 0 0	3 0 0 0	4 4 4 4 4	5 9 9 9	6 8 8 8	7 0 0 0	8	18	Comments
Conc:	1 2 3 4	1 0 0 0 0 0	2 0 0 0 0 0 0	3 0 0 0 0	4 + + + + + +	5 9 9	6 X X X X X X X	7 0 0 0 0	8	18	Comments
Conc:	1 2 3 4 5 6	1 0 0 0 0 0 0	2 0 0 0 0 0 0 0	3 0 0 0	4 + + + + + + + +	5 9 9 9 9 9 9 9 9	6 X X X X X X X X X X X X X X X X X X X	7 0 0 0 0	8	18 18 18 18	Comments
Conc:	1 2 3 4 5 6 7	1 0 0 0 0 0		3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 + + + + + + + +	5 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	6 X X X X X X X	7 0 0 0 0 0 0	8	18 18 18 18 18	Comments
Conc:	1 2 3 4 5 6 7 8	1 0 0 0 0 0 0		3 0 0 0 0 0 0 0	4 + + + + + + + + + + + + + + + + + + +	5 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	6 X X X X X X X X X X X X X X X X X X X	7 0 0 0 0 0 0	8	18 18 18 18 18 18	Comments
Conc:	1 2 3 4 5 6 7	1 0 0 0 0 0		3 0 0 0 0 0 0 0 0	4 + + + + + + + + + +	5 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	6 X X X X X X X X X X X X X X X X X X X	7 0 0 0 0 0 0	8	18 18 18 18 18 18	Comments

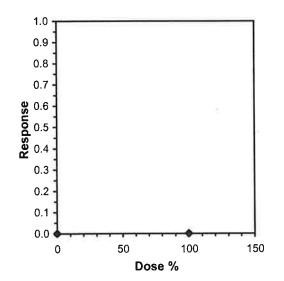
Ceriodaphnia Survival and Reproduction Test-7 Day Survival Sample ID: DE0000299 4/28/2004 12:00 Test ID: 040428Acd Start Date: Lab ID: AES-CVLC-Aquatech Enviror Sample Type: **OUTFALL 001** 5/5/2004 12:15 End Date: Protocol: EPA-CFW-EPA-821-R-02-01 Test Species: CD-Ceriodaphnia dubia Sample Date: 4/27/2004 09:00 Comments: 20 hours 10 5 6 8 9 Conc-% 2 3 4 1 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 **B-Control** 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 100 1.0000 1.0000 1.0000 1.0000 1.0000

				Not			Fisher's	1-Tailed	Isot	onic
Conc-%	Mean	N-Mean	Resp	Resp	Total	N	Exact P	Critical	Mean	N-Mean
B-Control	1.0000	1.0000	0	10	10	10			1.0000	1.0000
100	1.0000	1.0000	0	10	10	10	1.0000	0.0500	1.0000	1.0000

Hypothesis	Test (1-tail,	0.05)	NOEC	LOEC	ChV	TU		
Fisher's Exa	act Test		100	>100		1		
				Line	ar Interpo	olation (80 Re	esamples)	
Point	%	SD	95%	6 CL	Skew	,		

 Point
 %
 SD
 95% CL
 Skew

 IC05
 >100
 IC10
 >100
 IC10
 IC100
 IC100
 IC100
 I



15 1/20

Ceriodaphnia Survival and Reproduction Test-Reproduction Sample ID: DE0000299 Start Date: 4/28/2004 12:00 Test ID: 040428Acd **OUTFALL 001** Lab ID: AES-CVLC-Aquatech Enviror Sample Type: End Date: 5/5/2004 12:15 CD-Ceriodaphnia dubia Protocol: EPA-CFW-EPA-821-R-02-01 Test Species: Sample Date: 4/27/2004 09:00 Comments: 20 hours 10 8 9 2 4 5 6 Conc-% 3 18.000 18.000 18.000 18.000 18.000 18.000 20.000 20.000 20.000 20.000 **B-Control** 18.000 18.000 18.000 18.000 18.000 18.000 18.000 100 18.000 18.000 18.000

				Transforn	n: Untrans	sformed		Rank	1-Tailed	Isot	tonic
Conc-%	Mean	N-Mean	Mean	Min	Max	CV%	N	Sum	Critical	Mean	N-Mean
B-Control	18.800	1.0000	18.800	18.000	20.000	5.494	10			18.800	1.0000
100	18.000	0.9574	18.000	18.000	18.000	0.000	10	85.00	82.00	18.000	0.9574

Auxiliary Tests	Statistic	Critical	Skew	Kurt
Shapiro-Wilk's Test indicates non-normal distribution (p <= 0.01)	0.79385	0.868	0.62526	-0.4967
Equality of variance cannot be confirmed				
Hypothesis Test (1-tail, 0.05)				

Wilcoxon Two-Sample Test indicates no significant differences

Linear Interpolation (80 Resamples) Skew SD 95% CL **Point** % IC05 >100 IC10 >100 IC15 >100 1.0 IC20 >100 0.9 IC25 >100 8.0 IC40 >100 IC50 >100 0.7 0.6 0.5 0.4 0.3 0.2 0.1 0.0 150 0 50 100 Dose %

Aquatech Environmental Services, Inc. 503 Central Drive East, Suite 101 Virginia Beach, Va. 23454



Sample Information

Accreditation # 01102CA

1.0 Facility:

2.0 Sample ID:

2.4 Chemistry

2.2 Initial Receipt Date/ Time 2.3 Temperature @ Receipt:

2.1 Quantity of Samples:

040428-C-1-A0404 Outfall 001 3 samples

4/28/04; 09:45 0.5

Allen Family Foods, Inc.

7 day Chronic Toxicity Pimephales promelas

Survival & Growth

Submitted to:Steve Hudson 6-May-04 Date Prepared

Performed @ Receipt:	100% Effluent	MHW
pН	7.58	7.8
D.O. (mg/L)	9.2	8.5
Alkalinity (mg/L)	101.9	61.14
Hardness (mg/L)	26	80
Ammonia (mg/L)	0.11	< 0.01
Nitrite (mg/L)	0.005	< 0.01
Nitrate (mg/L)	0.2	< 0.001
Chlorine (mg/L)	< 0.01	< 0.01
Conductivity (umhos)	762	300
Salinity (ppt)	0.5	<0.1

2.5 Dilution Water:

Source & Storage:	MHW	Sample Type:	grab
Date/Time prepared:	4/28, 4/30, 5/02		
Pretreatment Info:	None		

2.6 Sample Storage:

4°C

2.7 Sample Preparation:

Warm to 25 celcius, 0.5 dilution

6.1 Results:

Software & Statistical Method

I Methods Used:	Dunnett's & Steel's	
Homogeneous:	Yes	
Normal Variances:		

Endpoints:

LC50	> 100 %	NOEC	100.00%
LL	4	LOEC	> 100 %
UL		TU	1.00
TU	па		STATE OF THE STATE

Summary of Physical & Chemical Parameters:

AT I	•	ч	x

AND THE RESERVE	Range	Mean
Temperature °C	24.5-25.7	24.99
рН	7.47-7.88	7.74
D.O. (mg/L)	6.5-8.5	7.76
Conductivity	300-300	300.0
Salinity	< 0.1	< 0.1

100% Effluent

	Range	Mean
Temperature °C	24.3-25.8	25.0
pH	7.32-8.56	7.7
D.O. (mg/L)	7.1-9.3	8.4
Conductivity	947-983	962.0
Salinity	па	na



Test Conditions

Accreditation # 01102CA

1.0 Facility:

2.1 Sample ID:

2.1 Quantity of Samples;

2.2 Initial Receipt Date/ Time

2.3 Temperature @ Receipt:

Allen Family Foods, Inc. 040428-C-1-A0404

Outfall 001

3 samples

4/28/04; 09:45

0.5

7 day Chronic Toxicity

<u>Pimephales promelas</u>

Survival & Growth

Submitted to:Steve Hudson

6-May-04

Date Prepared

Test Conditions

Toxicity Test Method:	EPA-821-R-02-013	
Enpoints:	Survival & Growth	
Deviations:	None	
Start Date/Time:	4/28/04; 12:10	
End Date/Time:	5/05/04; 12:30	
Samples Renewed:	Daily	
If Yes, within +/- 2 hour	r of Test Initiation:	Yes

Test Chamber Size:	400 ml	
Sample Volume:	250 ml	
Number of Replicates:	4	
Organisms / Replicate:	10	

Food Type:	artemia
Date/Time:	2X daily
Concentration or Age:	< 24 hrs
Date Prepared:	4/26-5/02/04

Acclimation of Organisms:	Hatched in 25 °C	AND THE RESERVE OF	Survival %
Test Temperature: mean	25.0	MHW	80.0%
Test Conductivity: mean	300.0	100% Effluent	72.5%

Aeration Necessary:	Yes, 1st sample only.	
Organism weighed:	<u>Yes</u>	
Chemistries performed:	<u>in vessels</u>	
Randomization:	in accordance with Toxcalc	

4.1	Test Organisms	Pimephales promelas	Taxonomic Key:	Snyder, 1977
	Age of Organisms:	20 hours		A CONTRACT OF STREET
	Source of Cultures:	AES Inhouse	Generation:	15th
	mean ctrl wt (mg):	0.3125	Holding Conditions:	170/L
	100% Effluent	0.3325	Treatments:	none

5.1 Quality Assurance / Quality Control

Reference Toxicant:	Cadmium Chloride	RT Results	4/06/04: 11:00
Source:	ERA	Survival-NOEC	6.25 ug/L
Date Received:	28-Feb-03	Growth-NOEC	12.5 ug/L
Lot #	0225-03-01	IC25	10.34 ug/L

page // of 24

Test ID			ily Foods, I		Dilution we		E E		mg/L MHV	
NPDES #		DE000029	19		Organism 1			Pimephales		МН
Source:		001			Test Type:			Survival &		164
Date/Time Colle	cted		27/04; 09:00		Age of Org Test Volum			20 hours 250	Gen. mls	15th
Sample Type:		composite			Chambersi			400	mis	
Sampler:		ADC/NDO	MAP				-	डाडील	123	<u> </u>
Date/Time Starte		4128101	100		Date /Time	Engea:		3/2/01	100	
Info Upon Re	cent	7.58		Die	olved Ox	7000	9.20	=z/L		
pH Chlorine -		_<0.01	mg/L	Dias	Condu			umkos -		
Ammonia	2 5 60	0.11	mg/L	I	otal Alkı		101.9	mg/L		
Temperature		0.5	. "C	1	otal Har	dness	26	mg/L		
			loso er T		Odi -	200	0.225	- 12 0		
Feeding A	M			2570		0930		0130		
Feeding P	M	1710	1630	1615	17.30	1615	1550	1610		
		No.	of Surviv	DES						
Replicate	Day		1	2	3	4	5	6	7	Connects
ontrol —	 A ⊕	-10-	10	10	10	42 -	10	9-	8-	
	В	10	10	10	10	10	10	10	8	
	C		10	10	9	8	8	8	8	*61
		10	10	(9	8	8	8	4	8	
	D	7	-				9		1	
Conc.	A	10	10	10	9	9.		8		
limil	В	10	10	9	9	9	9	8	7	
100%	C		10	10	10	9	9	8	8	
1				10	10	10	10	8	n	
L	D	10	10	IV	19	10	1	-		
Conc.	A									
	В									
	С									
	D		-						Times 1	
Conc.	A					-				
	В									
	€			ĥ.						
	D	-	-	_==						
Conc.	A							-		
	В									
	C									
				7						
Conc.		+	-							
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			175	Tiun	1060	1320	17170	17.50	1235	-
TIME		1210								
TECHNIC		MIX	MAK	1 100 -	AN	m	I kando	MIDE	was	I

disc: Bioassay Testing 6.1.9 file: Chronic U/D: 04/30/03

FISH LARVAL SURVIVAL & GROWTH TEST

Test ID:
NPDES #
Outfall #
Date/Time Collected
Sample Type:
Sampler:
Date/Time Started:
Date Weighed:

Technician

Allen Family Foods, Inc.	Dilution water type:	80 mg/L MHW
DE0000299	Organism Type:	Pimephales promelas
001	Test Type:	Survival & Growth
4/26/04-4/27/04; 09:00-09:00 composite	Age of Organisms: Test Volume:	20 hours hours 250 mls
ADC/NDC/MAF	Chamber size: Date /Time Ended:	400 mls
4/2/14 MAP	Temperature:	11 C.

Cone.			Foll WL+	We of the first	Figure Home City
	A	963.6	967.1	3.5	
, 1	В	964.9	968.0	3.1	10
lestona	С	964.9	467.8	29	10
	D	967.9	970.9	3.5 3.1 2.9 3.0	10:
	Α	963.3	966.7	-3.4	30000
1000	В	9661	969.7	3.4 3.6 2.9 3.4	16
100%	c	972.9	915.8	29	18
THE STATE	D	968-5		3.4	18
	and him to				40.00
	Α	POWER PROPERTY.	SOUTH STOLEN	AND THE PROPERTY OF THE PARTY O	10
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nemana sahaw	С				718
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- 100 m	3	-		 	MCXXXXXXXXXXXX
	D	and the second second	## (A TO THE POST OF THE POST	NAME OF THE PROPERTY OF THE PARTY OF THE PAR	10

Test ID:	Allen Family Foods, Inc.	Dilution water type:	81	0 mg/L MF	{W	
NPDES !	DE0000299	Organism Type:	P	imephales	promelas	
Source:	001	Test Type:	S	urvival & C	Growth	
Date/Time Collected	4/26/04-4/27/04; 09:00-09	:00 Age of Organisms:		20 hours	Gen	15th
Sample Type:	composite	Test Volume:		250	mls	
Sampler:	ADC/NDC/MAF	Chamber size:	9/1	400	mls	
Date/Time Started:	A 18 04 1210	Date /Time Ended:	3	5/5/04	(230	
pH Chlorine	7.58 <0.01 mg/L	Dizzolved Oxygen Conductivity		mg/L mhor	-	
Ammonia Temperature	0.11 mg/L 0.5 mC	Total Alkalinity Total Hardness	101.9 26	mg/L mg/L		

Control		- David	D1	D 1	Day 2	D=14	Day 6	Day 6	Day 7	Day 8	Comments
		Day 0	Day 1	Day 2	Day 3	25.6	Day 5	249	Day /	Day o	Commend
Temp	Initial	245	24.7	24.2	25.7	-			211 0		
* C	Final		25.0	245	24.7	24.9	25.3	25.2	24,9		
рH	laitial	7.80	7.86	7.79	1.83	7.81	7.88	7.82			
	Final		7.64	7-75	7.81	7.86	7.60	7.47	7,48		
DO	Initial	8.5	8.5	8.5	8.5	8.4	8.5	8.5			2
	Final		1.3	7.0	7.3	7.4	6.9	6.9	65		
Final R	eplicate		A	B	C	D	A	6	C		
Condu	ctivity	300	300.	300	300	300	330	300			
Alkalin	ity mg/L	61.14	4414	61.14	61.14	61.14	61.14	101.14			
Hardne	ss mg/L	50.0	80.0	80.0	80.0	80.0	80.0	×0.0			
Chlori	ac mg/L	40.01	(0,0)	40.01	40.51	40.01	20.01	20.01			
T	ME	1200	1345	1135	1048	1325	1150	1242	1230		
INI	TIALS	Ar	MAY	A_	A	An	most	MAG	MAY		

Conc:				3						
100%	Day 0	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Comments
Temp laitial	24.9	25.2	24.4	24.3	25.8	25.7	74.7			Significan
°C Final		75.0	25.0	25.1	34.8	25.3	25.2	24.9		greenal
H Initial	1.35	1.56	7.35	7.34	7.32	7.35	7.33			green al
Final	1710 - 1343 - 1	7.72	7.71	7.89	7.89	7.67	8,56	8.50		0
DO Initial	9:0	8.9	8.9	8.8	8.9	8-9	9.0			
Final		7.7	7.1	7.4	7.6	7.3	9.3	9.1		
Final Replicate		A	B	C	0	A	B	C		
Conductivity	983	983	947	947	958	958	1958			
Alkalinity mg/L	101.9	101.9	66.14	61.44	WILL	61.14	61.14			
Hardness mg/L	26	26.0	34.0	340	32.0	34,0	34.0			
Chlorine mg/L	4001	40.01	0.01	0.01	0.04	0.14	4.04			7.7
TIME	1201	1346	1136	1046	1326	1157	1243	1231		
INITIALS	A	MBF	A	kn	1	max	MOR	MAK	,	

Larval Fish Growth and Survival Test-7 Day Survival

4/28/2004 12:10 Test ID: 040428App Start Date:

Sample ID:

DE0000299

End Date:

5/5/2004 12:30

Lab ID: AES-CVLC-Aquatech Enviror Sample Type:

OUTFALL 001

Comments:

Sample Date: 4/27/2004 09:00

Protocol: EPA-A-EPA-821-R-02-012 Test Species:

PP-Pimephales promelas

20 hours Conc-%

100

B-Control

2 3 4 1 0.8000

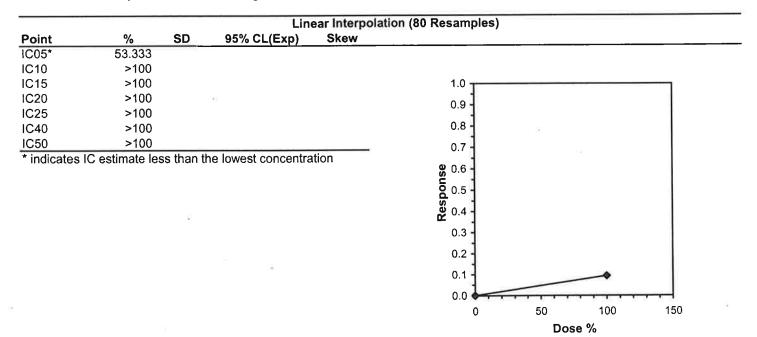
0.8000 0.8000 0.8000 0.7000 0.7000 0.7000 0.8000

			Tra	Transform: Arcsin Square Root			Rank	1-Tailed	Isotonic		
Conc-%	Mean	N-Mean	Mean	Min	Max	CV%	N	Sum	Critical	Mean	N-Mean
B-Control	0.8000	1.0000	1.1071	1.1071	1.1071	0.000	4			0.8000	1.0000
100	0.7250	0.9063	1.0202	0.9912	1.1071	5.685	4	12.00	11.00	0.7250	0.9063

Auxiliary Tests	Statistic	Critical	Skew	Kurt
Shapiro-Wilk's Test indicates non-normal distribution (p <= 0.01)	0.7064	0.749	2.0367	4.9
Equality of variance cannot be confirmed				

Hypothesis Test (1-tail, 0.05)

Wilcoxon Two-Sample Test indicates no significant differences



Larval Fish Growth and Survival Test-7 Day Growth Start Date: 4/28/2004 12:10 Test ID: 040428App Sample ID:

DE0000299

Lab ID: AES-CVLC-Aquatech Enviror Sample Type: End Date: 5/5/2004 12:30

OUTFALL 001

Protocol: EPA-A-EPA-821-R-02-012 Test Species: PP-Pimephales promelas Sample Date: 4/27/2004 09:00 Comments: 20 hours

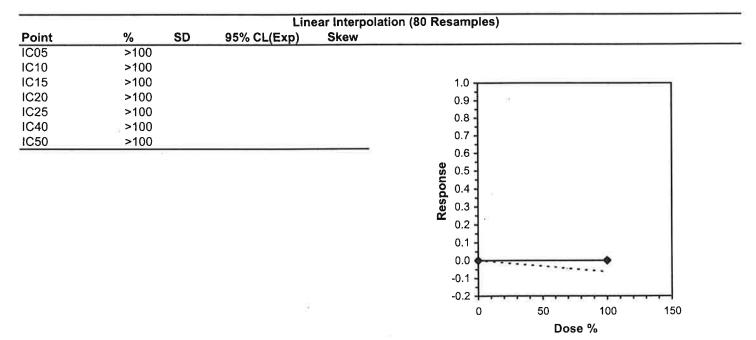
2 3 Conc-% 0.3500 0.3100 0.2900 0.3000 **B-Control** 0.3400 0.3600 0.2900 0.3400 100

			Transform: Untransformed			20	1-Tailed		Isot	onic		
Conc-%	Mean	N-Mean	Mean	Min	Max	CV%	N	t-Stat	Critical	MSD	Mean	N-Mean
B-Control	0.3125	1.0000	0.3125	0.2900	0.3500	8.416	4				0.3225	1.0000
100	0.3325	1.0640	0.3325	0.2900	0.3600	8.981	4	-1.005	1.943	0.0387	0.3225	1.0000

Auxiliary Tests	Statistic	Critical	Skew Ku
Shapiro-Wilk's Test indicates normal distribution (p > 0.01)	0.98159	0.749	-0.1697 -0.35
F-Test indicates equal variances (p = 0.84)	1.28916	47.4683	

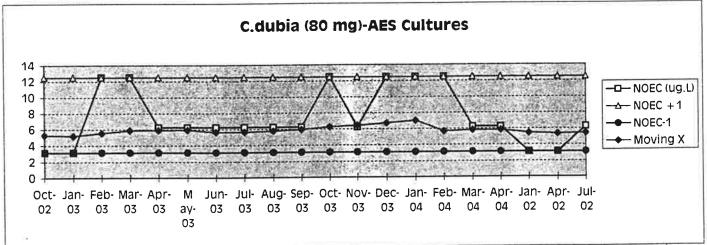
Hypothesis Test (1-tail, 0.05)

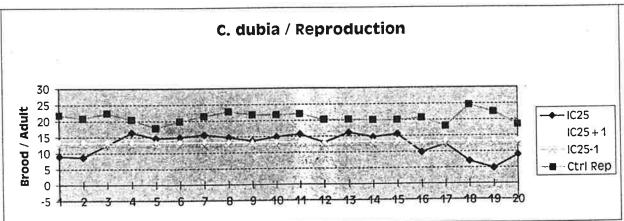
Homoscedastic t Test indicates no significant differences



7 day Chronic Renewal EPA-821-R-02-013

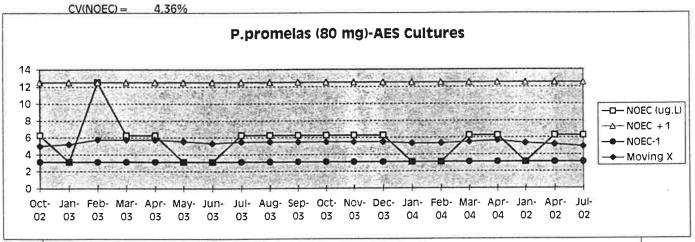
Dates	Sequence	NOEC (ug.L)	NOEC +1	NOEC-1	Moving X	IC25	ICSd	MX Sd	IC25+1	IC25-1
10/14/2002	Oct-02	3.125	12.5	3.125	5.27	8.96	0.71	0.02	13.20	12.05
1/20/2003	Jan-03	3.125	12.5	3.125	5.17	8.65	0.83	0.02	13.20	12.05
2/3/2003	Feb-03	12.5	12.5	3.125	5.53	12.5	0.00	0.00	13.20	12.05
3/11/2003	Mar-03	12.5	12.5	3.125	5.88	16.31	0.71	0.00	13.20	12.05
3/31/2003	Apr-03	6.25	12.5	3.125	5.9	14.52	0.19	0.00	13.20	12.05
5/9/2003	May-03	6.25	12.5	3.125	5.92	14.83	0.26	0.00	13.20	12.05
6/8/2003	Jun-03	6.25	12.5	3.125	5.63	15.63	0.47	0.00	13.20	12.05
7/1/2003	Jul-03	6.25	12.5	3.125	5.63	14.75	0.24	0.00	13.20	12.05
8/4/2003	Aug-03	6.25	12.5	3.125	5.78	13.67	0.06	0.00	13.20	12.05
9/11/2003	Sep-03	6.25	12.5	3.125	5.94	14.83	0.26	0.00	13.20	12.05
10/2/2003	Oct-03	12.5	12.5	3.125	6.25	15.66	0.48	0.01	13.20	12.05
11/1/2003	Nov-03	6.25	12.5	3.125	6.41	13.07	0.01	0.02	13.20	12.05
12/3/2003	Dec-03	12.5	12.5	3.125	6.72	16.07	0.62	0.04	13.20	12.05
1/12/2004	Jan-04	12.5	12.5	3.125	7.03	14.66	0.22	0.08	13.20	12.05
2/9/2004	Feb-04	12.5	12.5	3.125	5.68	15.52	0.44	0.00	13.20	12.05
3/2/2004	Mar-04	6.25	12.5	3.125	5.81	9.87	0.40	0.00	13.20	12.05
4/6/2004	Apr-04	6.25	12.5	3.125	5.82	12.36	0.00	0.00	13.20	12.05
1/15/2002	Jan-02	3,125	12.5	3.125	5.46	6.99	1.67	0.01	13.20	12.05
4/24/2002	Apr-02	3.125	12.5	3.125	5.34	4.8	3.23	0.01	13.20	12.05
7/9/2002	Jul-02	6.25	12.5	3.125	5.39	8.91	0.73	0.01	13.20	12.05
	CV(IC25) =	4.56%	7.50	mean calc	5.83	12.63	0.58	0.02	0.05	
	CV(NOEC) =	0.41%								

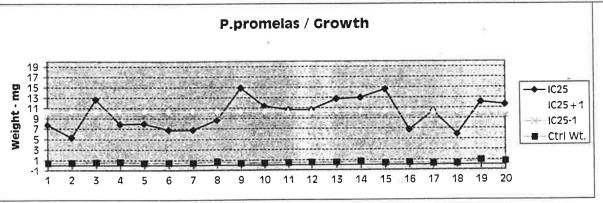




2004- Cadmium Chloride Ceriodaphnia dubia (80 mg) AES Inhouse Cultures Moderately Hard Reconstituted Water 7 day Chronic Renewal EPA-821-R-02-013

Dates	Sequence	NOEC (ug.L)	NOEC +1	NOEC-1	Moving X	IC25	ICSD	MXSD	IC25+1	IC25-1	Ctrl Wt.
10/14/2002	Oct-02	6.25	12.5	3.125	5	7.69	0.25	0.02	10.32	9.45	0.43
1/20/2003	Jan-03	3.125	12.5	3.125	5.21	5.26	1.13	0.01	10.32	9.45	0.443
2/3/2003	Feb-03	12.5	12.5	3.125	5.73	12.64	0.40	0.00	10.32	9.45	0.498
3/11/2003	Mar-03	6.25	12.5	3.125	5.73	7.86	0.22	0.00	10.32	9.45	0.598
3/31/2003	Apr-03	6.25	12.5	3.125	5.73	7.96	0.20	0.00	10.32	9.45	0.425
5/9/2003	May-03	3.125	12.5	3.125	5.53	6.73	0.52	0.00	10.32	9.45	0.453
6/8/2003	Jun-03	3.125	12.5	3.125	5.31	6.72	0.53	0.01	10.32	9.45	0.412
7/1/2003	Jul-03	6.25	12.5	3.125	5.47	8.66	0.08	0.00	10.32	9.45	0.675
8/4/2003	Aug-03	6.25	12.5	3.125	5.47	14.83	1.29	0.00	10.32	9.45	0.36
9/11/2003	Sep-03	6.25	12.5	3.125	5.47	11.32	0.11	0.00	10.32	9.45	0.383
10/2/2003	Oct-03	6.25	12.5	3.125	5.47	10.65	0.03	0.00	10.32	9.45	0.465
11/1/2003	Nov-03	6.25	12.5	3.125	5.47	10.61	0.03	0.00	10.32	9.45	0.4725
12/3/2003	Dec-03	6.25	12.5	3.125	5.47	12.73	0.43	0.00	10.32	9.45	0.4775
1/14/2004	Jan-04	3.125	12.5	3.125	5.31	12.98	0.50	0.01	10.32	9.45	0.66
2/9/2004	Feb-04	3.125	12.5	3.125	5.31	14.56	1.15	0.01	10.32	9.45	0.35
3/2/2004	Маг-04	6.25	12.5	3.125	5.47	6.67	0.54	0.00	10.32	9.45	0.447
4/6/2004	Apr-04	6.25	12.5	3.125	5.63	10.34	0.01	0.00	10.32	9.45	0.2975
1/15/2002	Jan-02	3.125	12.5	3.125	5.31	5.8	0.88	0.01	10.32	9.45	0.27
4/24/2002	Apr-02	6.25	12.5	3.125	5.16	12.09	0.26	0.01	10.32	9.45	0.93
7/9/2002	Jul-02	6.25	12.5	3.125	4.93	11.62	0.16	0.03	10.32	9.45	0.665
	CV(IC25) =	4.40%		mean calc	5.63	9.89	0.44	0.25	0.49		





2004 - Cadmium Chloride Pimephales promelas (80 mg) AES Inhouse Cultures Moderately Hard Reconstituted Water

